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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/790,820	03/03/2004	Fumisada Macda	249684US6	1498
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.			EXAMINER	
			nguyen, linh thi	
ALEXANDRIA, VA 22314		·	ART UNIT	PAPER NUMBER
			2627	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MOI	NTHS	01/24/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)			
Office Action Summary		10/790,820	MAEDA ET AL.			
		Examiner	Art Unit			
		Linh T. Nguyen	2627			
	The MAILING DATE of this communication app					
Period for			· ·			
WHICH - Extens after S - If NO p - Failure Any re	PRTENED STATUTORY PERIOD FOR REPLY HEVER IS LONGER, FROM THE MAILING DASIONS of time may be available under the provisions of 37 CFR 1.13 (IX (6) MONTHS from the mailing date of this communication. Deriod for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, ply received by the Office later than three months after the mailing dipatent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tirr rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1) 🛛 🛚 F	Responsive to communication(s) filed on <u>03 Ma</u>	arch 2004.				
•	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
•	···					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition	on of Claims					
4)⊠ Claim(s) <u>1-12</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
·	Claim(s) is/are allowed.		·			
·	Claim(s) <u>1-12</u> is/are rejected.					
• · · · ·	Claim(s) is/are objected to. Claim(s) are subject to restriction and/o	r election requirement				
۰ ۱۱(۰	cialin(s) are subject to restriction and of	relection requirement.				
Application	on Papers	0				
•	he specification is objected to by the Examine					
10)⊠ The drawing(s) filed on <u>03 March 2004</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
י ובו/יי	The Datif Of declaration is objected to by the Ex	aminer. Note the attached Office	7.00.01 01 10.111 1 1 0 102.			
Priority u	nder 35 U.S.C. § 119					
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.						
de the attached detailed office action for a list of the certified copies not received.						
Attachment	(s)					
1) Notice of References Cited (PTO-892)  A) Interview Summary (PTO-413)  Paper No(s)/Mail Date						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date  5) Notice of Informal Patent Application 6) Other:						

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### **DETAILED ACTION**

## Claim Objections

Claim 1 is objected to because of the following informalities: in claim 1 of line 1 "less" should be "lens". Appropriate correction is required.

Claim 3 is objected to because of the following informalities: in claim 3 of line 3 "wit" should be "with". Appropriate correction is required.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-12 are rejected under 35 U.S.C. 102(b) as being anticipated by Ito et al (JP Publication number 2000149293).

In regards to claim 1, Ito et al discloses a less drive apparatus having a movable section (Fig. 1, element 8) which is equipped with a plurality of either drive coils or magnetic field means for moving a mounted lens to an optical axis direction (Fig. M1, elements 3 and 4) and a moving direction orthogonal (Y-axis) to said optical axis direction (Paragraph [0026], line 28; direction of the tracking) and a fixed section for supporting said movable section (Fig. 1, element 11) and having either magnetic field means for said drive coils or drive coils for said magnetic field means (Fig. 1, elements

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3,4 and 6), wherein: an x-coordinate value of a center of gravity G (Fig. 2a-c, element 17) and an x-coordinate value of a driving center Df do not accord with each other (Fig. 2a-c, element 28), provided that a z-axis is set to pass through the center of gravity of the movable section in a direction parallel to the optical axis (Fig. 2a), a y-axis is set in said moving direction of the lens (Paragraph [0026], line 28), an x-axis is set in a direction orthogonal to the z-axis and the y-axis (Fig. 4), the center of gravity of said movable section is G (Fig. 2, element 17), and a driving center of the movable section in the z-axis direction is Df (Fig. 2, element 28).

In regards to claims 2, 6 and 10, Ito et al discloses the lens drive apparatus as cited in claim 1, wherein: z-coordinate value of the center of gravity G (Fig. 2a) and z-coordinate value of the driving center Dt are approximately equal, provided that a driving center of said movable section to y-axis direction is defined as Dt (Paragraph [0026], lines 25-30).

In regards to claims 3, 7 and 11, Ito et al discloses the lens drive apparatus as cited in claim 1, wherein: a principal point of said lens (Fig. 2a-c, element 1) and the center of gravity G of said movable section approximately accord with each other (Fig. 2a-c, element 17 is the center of the lens 1).

In regards to claims 4 and 8, Ito et al discloses the lens drive apparatus as cited in claim 1, wherein: said plurality of drive coils includes drive coils for the lens in the

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optical axis direction (Fig. 2a-c, element 4) and drive coils for the lens in the moving direction (Fig. 2, element 3); and respective said magnetic field means provided to each of said drive coils for the lens in the optical axis direction and drive coils for the lens in the moving direction are arranged across said lens (Fig. 2a-c, element 6 magnetic field is across from the lens 1).

In regards to claim 5, Ito et al discloses an optical head apparatus having an optical system (Fig. 1) including an objective lens (Fig. 1, element 1) and a light source for reading and/or recording of an optical recording medium (Fig. 23), a movable section (Fig. 1, element 8) which is equipped with a plurality of either drive coils or magnetic field means (Fig. 1, elements 3 and 4) for moving said objective lens to an optical axis direction (z-axis) and a moving direction orthogonal to said optical axis direction and a fixed section for supporting said movable section (y-axis) and having either magnetic field means for said drive coils or drive coils for said magnetic field means (Fig. 1,element 6), wherein: an x-coordinate value of a center of gravity G (Fig. 2a-c, element 17) and an x-coordinate value of a driving center Df do not accord with each other (Fig. 2a-c, element 28), provided that a z-axis is set to pass through the center of gravity of the movable section in a direction parallel to the optical axis (Fig. 2a), a y-axis is set in said moving direction of the lens (Paragraph [0026], line 28), an x-axis is set in a direction orthogonal to the z-axis and the y-axis (Fig. 4), the center of gravity of said movable section is G (Fig. 2, element 17), and a driving center of the movable section in the z-axis direction is Df (Fig. 2, element 28).

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In regards to claim 9, Ito et al discloses an optical disk drive apparatus having an optical system including an objective lens (Fig.1, element 1) and a light source for reading and/or recording of an optical recording medium rotated by rotating means (Fig. 33, element 30), a movable section (Fig. 1, element 8) which is equipped with either focus coil and tracking coil (Fig. 1, elements 3 and 4) or focus magnetic field means (Fig. 1, element 6) and tracking magnetic field means for moving said objective lens to an optical axis direction (z-axis) and a tracking direction orthogonal to said optical axis direction (y-axis) and a fixed section (Fig. 1, element 11) for supporting said movable section and having either focus magnetic field means and tracking magnetic field means for said focus coil and said tracking coil or focus coil and tracking coil for said focus magnetic field means and said tracking magnetic field means (Fig. 1, elements 3, 4 and 6), wherein: wherein: an x-coordinate value of a center of gravity G (Fig. 2a-c, element 17) and an x-coordinate value of a driving center Df do not accord with each other (Fig. 2a-c, element 28), provided that a z-axis is set to pass through the center of gravity of the movable section in a direction parallel to the optical axis (Fig. 2a), a y-axis is set in said moving direction of the lens (Paragraph [0026], line 28), an x-axis is set in a direction orthogonal to the z-axis and the y-axis (Fig. 4), the center of gravity of said movable section is G (Fig. 2, element 17), and a driving center of the movable section in the z-axis direction is Df (Fig. 2, element 28).

In regards to claim 12, Ito et al discloses the optical disk drive apparatus as cited

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in claim 9, wherein: said focus coil and tracking coil (Fig. 2a-c, elements 3 and 4), and said focus magnetic field means and said tracking magnetic field means (Fig. 2a-c, element 6) provided for said focus coil and said tracking are arranged across said objective lens (Fig. 2a-c, elements 3, 4, and 6 are opposite from the objective lens 1).

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Linh T. Nguyen whose telephone number is 571-272-5513. The examiner can normally be reached on 8:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wayne Young can be reached on 571-272-4483. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

LN 01/19/07

PRIMARY EXAMINER